

Fig. 1

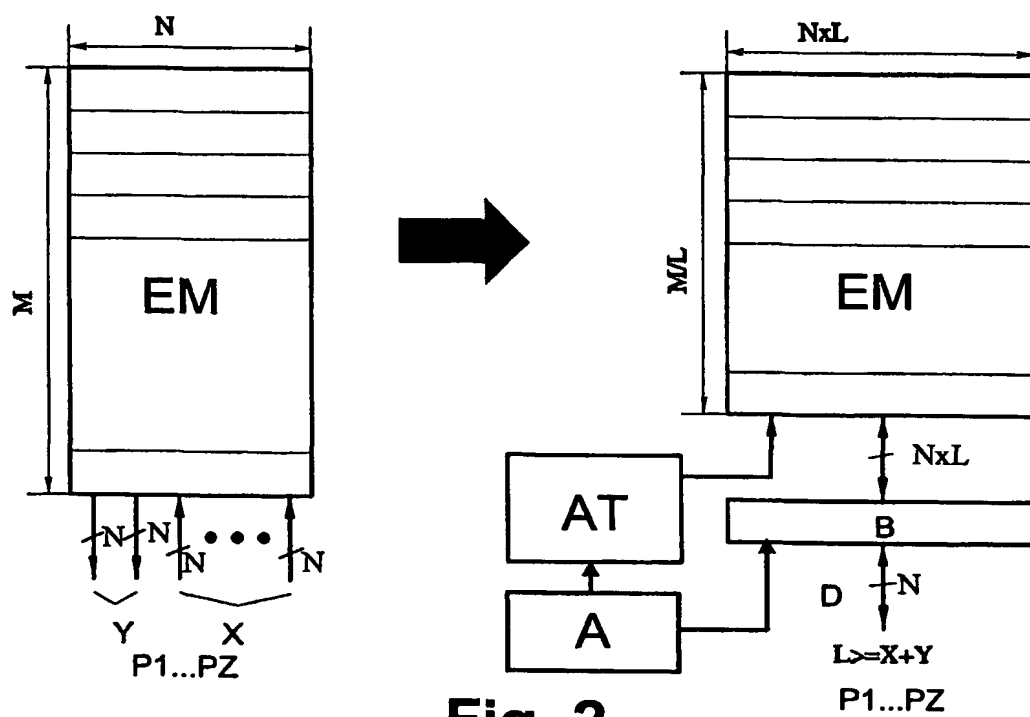
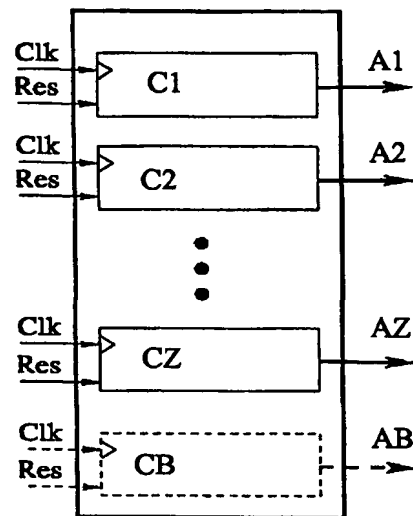
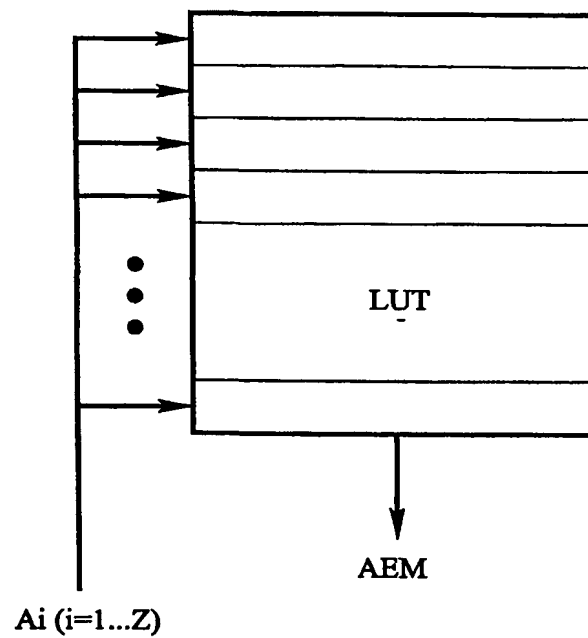


Fig. 2

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**Fig. 3****Fig. 4**

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| Cycle | Action   |
|-------|--|
| 0     | No access (write 4 samples into align buffer)  |
| 1     | No access (write 4 samples into align buffer)  |
| 2     | Write access (write 4 samples into align buffer and copy the align buffer into memory)           |
| 3     | Read access (transfer 12 samples to the first PRML decoder + write 4 samples into align buffer)  |
| 4     | Read access (transfer 12 samples to the second PRML decoder + write 4 samples into align buffer) |
| 5     | Write access (write 4 samples into align buffer and copy the align buffer into memory)           |
| 6     | Read access (transfer 12 samples to the third PRML decoder + write 4 samples into align buffer)  |
| 7     | Read access (transfer 12 samples to the fourth PRML decoder + write 4 samples into align buffer) |
| 8     | Write access (write 4 samples into align buffer and copy the align buffer into memory)           |
| 9     | Read access (transfer 12 samples to the fifth PRML decoder + write 4 samples into align buffer)  |
| 10    | No access (write 4 samples into align buffer)  |
| 11    | Write access (write 4 samples into align buffer and copy the align buffer into memory)           |

Fig. 5

| C  | W  | R    | O1 | O2   | O3   |
|----|----|------|----|------|------|
| 0  | L0 |      |    |      |      |
| 1  |    | L0   | L0 |      |      |
| 2  | L1 |      |    |      |      |
| 3  |    | (L4) |    | (L4) |      |
| 4  | L2 |      |    |      |      |
| 5  |    | (L7) |    |      | (L7) |
| 6  | L3 |      |    |      |      |
| 7  |    | L1   | L1 |      |      |
| 8  | L4 |      |    |      |      |
| 9  |    | (L5) |    | (L5) |      |
| 10 | L5 |      |    |      |      |
| 11 |    | (L8) |    |      | (L8) |
| 12 | L6 |      |    |      |      |
| 13 |    | L2   | L2 |      |      |
| 14 | L7 |      |    |      |      |
| 15 |    | L3   |    | L3   |      |
| 16 | L8 |      |    |      |      |
| 17 |    | L6   |    |      | L6   |

Fig. 6